IV. *A Catalogue of Eclipſes of* Jupiter's Satellites *for the Year* 1733. *By* James Hodgſon, *F. R. S. Maſter of the Royal Mathematical School at* Chriſt's Hoſpital, London.

ECLIPSES *of the firſt Satellite of* JUPITER.

Immerſions.				Immerſions.				Immerſions.			
D.	H.	M.	S.	D.	H.	M.	S.	D	H.	M.	S.
JANUARY				10	1	26	39	24	12	58	26*
				11	19	55	7	26	7	27	25
2	3	7	56	13	14	23	42*	28	1	56	24
3	21	35	41	15	8	52	20	29	20	25	20
5	16	3	26*	17	3	21	00	31	14	54	15*
7	10	31	12	18	21	49	40				
9	4	59	1	20	16	18	22*	APRIL.			
10	23	26	54	22	10	47	8				
12	17	54	48*	24	5	15	54	2	9	23	10*
14	12	22	44	25	23	44	44	4	3	52	7
16	6	50	41	27	18	13	32	5	22	21	4
18	1	18	42					7	16	49	59*
19	19	46	47	MARCH.				9	11	18	53*
21	14	14	53*					11	5	47	45
23	8	43	2	1	12	42	21*	13	00	16	36
25	3	11	15	3	7	11	15	Emerſions.			
26	21	39	31	5	1	40	11				
28	16	7	50*	6	20	9	7	14	20	53	44
30	10	36	12	8	14	38	2*	16	15	22	33*
				10	9	6	58	18	9	51	22*
FEBRUARY.				12	3	35	54	20	4	20	8
				13	22	4	50	21	22	48	53
1	5	4	37	15	16	33	45*	23	17	17	34
2	23	33	00	17	11	2	41*	25	11	46	3*
4	18	1	25*	19	5	31	36	27	6	14	53
6	12	29	50*	21	00	00	32	29	00	43	32
8	6	58	14	22	18	29	28	30	19	12	11

MAY

ECLIPSES *of the firſt Satellite of* JUPITER.

Emerſions.				Emerſions.				Emerſions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
				19	8	26	55	6	3	21	16
	MAY.			21	2	55	19	7	21	50	18
				22	21	23	42	9	16	19	21
2	13	40	50*	24	15	52	7*	11	10	48	26
4	8	9	28*	26	10	20	34*	13	5	17	34
6	2	38	3	28	4	49	2	14	23	46	44
7	21	6	34	29	23	17	30	16	18	16	00
9	15	35	2*					18	12	45	18
11	10	3	32*		JULY.			20	7	14	40*
13	4	32	2					22	1	44	00
14	23	00	32	1	17	45	58	23	20	13	16
16	17	29	00	3	12	14	28*	25	14	42	33
18	11	57	25*	5	6	42	56	27	9	11	46
20	6	25	49	7	1	11	27	29	3	40	56
22	00	54	12	8	19	40	1	30	22	10	3
23	19	22	33	10	14	8	35*				
25	13	50	52*	12	8	37	11		SEPTEMBER.		
27	8	19	8*	14	3	5	51				
29	2	47	26	15	21	34	34	1	16	39	14
30	21	15	45*	17	16	3	20*	3	11	8	31
				19	10	32	8*	5	5	37	50
	JUNE.			21	5	00	59	7	00	7	6
				22	23	29	51	8	18	36	24
1	15	44	2	24	17	58	43	10	13	5	41
3	10	12	17*	26	12	27	37*	12	7	35	00
5	4	40	34	28	6	56	29	14	2	4	17
6	23	8	50	30	1	25	22	15	20	33	33
8	17	37	7	31	19	54	14	17	15	2	47
10	12	5	23*					19	9	31	56
12	6	33	40		AUGUST.			21	4	1	1
14	1	1	58					22	22	30	4
15	19	30	17	2	14	23	11	24	16	59	7
17	13	58	35*	4	8	52	13*	26	11	28	9

ECLIPSES *of the firſt Satellite of* JUPITER.

Emerſions.				Immerſions.				Immerſions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
28	5	57	11*	NOVEMBER.				6	4	11	43
30	00	26	13					7	22	39	13
				Immerſions.				9	17	6	42*
OCTOBER.				Jupiter and the Sun				11	11	34	10
1	18	55	13	in Conjunction.				13	6	1	37
3	13	24	12					15	00	29	2
5	7	53	10	23	18	58	20*	16	18	56	27*
7	2	22	6	25	13	26	2	18	13	23	52
8	20	51	00	27	7	53	43	20	7	51	18
10	15	19	52	29	2	21	22	22	2	18	51
				30	20	49	1	23	20	46	29
								25	15	14	5
Jupiter and the Sun				DECEMBER.				27	9	41	41
in Conjunction.				2	15	16	37	29	4	9	17
				4	9	44	12	30	22	36	55

ECLIPSES *of the ſecond Satellite of* JUPITER.

Immerſions.				Immerſions.				Immerſions.			
				8	16	53	00*	23	8	31	21
JANUARY.				12	6	10	32	26	21	49	51
4	4	5	27	15	19	28	22	30	11	8	14*
7	17	21	24*	19	8	46	23	APRIL.			
11	6	37	34	22	22	4	26	3	00	26	36
14	19	53	52	26	11	22	41*	6	13	45	3*
18	9	10	18	MARCH.				10	3	3	29
21	22	26	57	2	00	40	54	13	16	21	40*
25	11	43	48	5	13	59	18*	Emerſions.			
29	1	00	52	9	3	17	44	17	8	18	12*
FEBRUARY.				12	16	36	7*	20	21	36	17
1	14	18	7*	16	5	54	33	24	10	54	12*
5	3	35	32	19	19	12	55	28	00	12	00

ECLIPSES *of the ſecond Satellite of* JUPITER.

Emerſions.			
D.	H.	M.	S.
		MAY.	
1	13	29	45*
5	2	47	36
8	16	5	10
12	5	22	40
15	18	40	11
19	7	57	34
22	21	14	51
26	10	31	58*
29	23	49	7
		JUNE.	
2	13	6	20*
6	2	23	16
9	15	40	20
13	4	57	26
16	18	14	34
20	7	31	48
23	20	49	8
27	10	6	33*
30	22	24	1
		JULY.	
4	12	41	31*
8	1	59	5
11	15	16	47
15	4	34	37
18	17	52	41
22	7	10	55
25	20	29	13
29	9	47	31*
		AUGUST.	
1	23	5	50
5	12	24	28
9	1	43	4
12	15	1	47
16	4	20	43
19	17	39	54
23	6	59	5*
26	20	18	7
30	9	36	59
		SEPTEMBER.	
2	22	55	58
6	12	15	10
10	1	34	19
13	14	53	27
17	4	12	32
20	17	31	23
24	6	50	3
27	20	8	41
		OCTOBER.	
1	9	27	16
4	22	45	46
8	12	4	10
12	1	22	26

Jupiter and the Sun in Conjunction.

NOVEMBER.

Immerſions.

23	14	9	1
27	3	24	52
30	16	40	35

DECEMBER.

4	5	56	29
7	19	12	14*
11	8	27	42
14	21	43	11
18	10	58	42
22	00	14	23
25	13	30	5
29	2	45	56

JANU-

ECLIPSES *of the third Satellite of* JUPITER.

D.	H.	M.	S.
		JANUARY.	
		Immerſions.	
6	13	17	41
13	17	13	16*
20	21	9	29
28	1	6	31
		Emerſions.	
6	15	39	13*
13	19	34	18*
20	23	30	1
28	3	26	33
		FEBRUARY.	
		Immerſions.	
4	5	4	23
11	9	2	32
18	13	00	34*
25	17	1	7*
		Emerſions.	
4	7	23	55
11	11	21	34
18	15	20	6*
25	19	19	9
		MARCH.	
		Immerſions.	
4	21	1	1
12	1	1	7
19	5	1	11
26	9	1	22
		Emerſions.	
4	23	18	35
12	3	18	13
		APRIL.	
		Immerſions.	
2	13	1	24*
9	17	1	23
		Jupiter and the Sun in Conjunction.	
		Emerſions.	
		Jupiter and the Sun in Conjunction.	
16	23	16	22
24	3	15	24
		MAY.	
		Immerſions.	
22	16	53	42
29	20	51	17
		Emerſions.	
1	7	13	28
8	11	11	59*
15	15	10	1
22	19	7	48
29	23	5	9
		JUNE.	
		Immerſions.	
6	00	48	45
13	4	46	14
20	8	43	57*
27	12	42	1*
		Emerſions.	
6	3	2	1
13	6	59	34
20	10	57	1*
27	14	54	51
		JULY.	
		Immerſions.	
4	16	40	16
11	20	38	46
19	00	37	59
26	4	37	44
		Emerſions.	
4	18	52	58
12	22	51	22
19	2	50	29
26	6	50	10
		AUGUST.	
		Immerſions.	
2	8	37	36*
9	12	38	1
16	16	38	56
23	20	40	27
31	00	41	30

ECLIPSES *of the third Satellite of* JUPITER.

D.	H.	M.	S.
	AUGUST.		
	Emerſions.		
2	10	50	00
9	14	50	23
16	18	51	16
23	22	52	45
31	2	53	46
	SEPTEMBER.		
	Immerſions.		
7	4	42	52
14	8	44	18
21	12	45	16
	Emerſions.		
7	6	55	12*
14	10	56	44
21	14	57	46
28	18	58	16
	OCTOBER.		
	Jupiter and the Sun in Conjunction.		
	Emerſions.		
5	22	58	33
13	2	58	21
	NOVEMBER.		
	Immerſions.		
17	20	32	50
25	00	27	56
	Jupiter and the Sun in Conjunction.		
	DECEMBER.		
	Immerſions.		
2	4	22	45
9	8	17	11
16	12	11	11
23	16	5	27
30	20	00	18*
	Emerſions.		
23	18	20	49*
30	22	15	00

The fourth Satellite continues to paſs wide of the Shadow, ſo that he will not be eclipſed this Year.

N. B. *Thoſe that are marked with a Star, are viſible at* London.

V. *Expe-*